

FIG. 2A

- 200

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LV Encoding

31 30 29	28 27 26 25	24 2	23 22	21 20 19 18	17	16	15	14	13	12	_11	10	9	8	76543210
Group S/P	CtrlOp	E/D	UAF	InstrCnt	0	0	0	SU	LU	ALU	MAU	DSU	٧b	0	VIMOFFS

## FIG. 2B

## LV Syntax/Operation

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Instruction Operands
                              Operation .
LV.[SP]
            V[01], VIMOFFS, (V[01]+VIMOFFS)[SU].enable \longrightarrow 0 if (D = S)
                              (V[01]+VIMOFFS)[LU].enable \longrightarrow 0 if (D = L)
             InstrCnt,
             D = \{SLAMD\},
                              (V[01]+VIMOFFS)[ALU].enable \longrightarrow 0 if (D = A)
                              (V[01]+VIMOFFS)[MAU].enable \longrightarrow 0 if (D = M)
             F = [AMDN]
                              (V[01]+VIMOFFS)[DSU] enable \longrightarrow 0 if (D = D)
                              (V[01]+VIMOFFS)[UAF] \longrightarrow ALU if (F = A or F =)
                              (V[01]+VIMOFFS)[UAF] \longrightarrow MAU if (F = M)
                              (V[01]+VIMOFFS)[UAF] \longrightarrow DSU if (F = D)
                              (V[01]+VIMOFFS)[UAF] \longrightarrow None if (F = N)
                              for (i = 0;i < InstrCnt;i++){
                                 Load instruction into (V[01]+VIMOFFS)
                                 if (LU Instr AND D! = L) { (V[01]+VIMOFFS)[LU].enable - 1}
                                 if (ALU Instr AND D! = A) { (V[01]+VIMOFFS) [ALU] .enable ---- 1}
                                 if (MAU Instr AND D! = M) { (V[01]+VIMOFFS)[MAU].enable - 1}
                                 if (DSU Instr AND D! = D) { (V[01]+VIMOFFS)[DSU].enable --- 1}
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FIG. 3A

XV Encoding

31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 Group S/P CtrlOp VX UAF 0 0 0 0 0 0 0 SU LU ALU MAU DSU Vb 0 VimOffs

FIG. 3B

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XV Syntax/Operation